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Notice of Allowability	Application No.	Applicant(s)
	10/533,599	UESAKA ET AL.
	Examiner	Art Unit
	Aaron Piggush	2838
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIFERS OF THE OFFICE OF UPON PETITION BY THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject t and MPEP 1308.	oplication. If not included n will be mailed in due course. THIS
1. This communication is responsive to application filed 3 May	<u>/ 2005</u> .	
2. The allowed claim(s) is/are 32-62.		
 3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		
2. Certified copies of the priority documents have	been received in Application No	·
3. Copies of the certified copies of the priority doc		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ENT of this application.	complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 	tted. Note the attached EXAMINER s reason(s) why the oath or declara	C'S AMENDMENT or NOTICE OF ation is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) including changes required by the Notice of Draftsperso		-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1.4 each sheet. Replacement sheet(s) should be labeled as such in the	B4(c)) should be written on the drawing the header according to 37 CFR 1.121(ngs in the front (not the back) of d).
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
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Attachment(s)	- -	
1. Notice of References Cited (PTO-892)	<u> </u>	Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Da	
 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 18 July 2005 	3), 7. 🛭 Examiner's Amendr	
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme	Adolf Denote Berhans Primary Examiner
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DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

On line 13 of claim 32, replace "Qequ" with -Cequ--.

On line 18 of claim 47, replace "Q_{equ}" with -Cequ--.

Furthermore, the IDS had number 5,591,078 listed as a reference. However, that number did not match the inventor listed on the IDS or the reference mentioned in the applicant's specification. Therefore, the number on the IDS has been changed to number 5,691,078, which is what the examiner believes to be the correct document.

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance:

Claims 32, 47, and 62 recite a battery capacity calculating method, apparatus, and program (respectively) for a secondary battery, wherein it comprises measuring terminal voltage and current during discharging, calculating an equilibrium voltage curve which shows the relation between a discharged capacity and an equilibrium voltage, calculating a discharged capacity based on the voltage and current measured, calculating an apparent/estimated equilibrium voltage by adding a voltage drop with the terminal voltage measured, calculating an

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apparent/estimated discharged capacity based on the equilibrium voltage curve, calculating a capacity shift which is the difference between the discharged capacity and the apparent/estimated discharged capacity, and estimating a future discharge curve based on the capacity shift.

Additionally, equilibrium is interpreted to exist when the internal states of the electrode and the electrolytic solution of the battery become stable after the battery has been left in an open circuit state for a long period of time (i.e. long enough for the internal states to become stable).

The art of record does not disclose the above limitations, nor would it be obvious modify the art in such a manner.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron Piggush whose telephone number is 571-272-5978. The examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karl Easthom can be reached on 571-272-1989. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Adolf Deneke Berhane Primary Examiner

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